

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-20. (canceled)

21. (currently amended) A module for coupling a telephone device to at least one time-domain multiplexed digitized voice channel carried over a bus topology wiring in a building, the wiring having at least two conductors, the module comprising:

a local area network modem couplable to the wiring and operative to couple to the signal carried over the wiring communicate with at least one identical modem over the bus topology wiring in the building;

selective means coupled to said modem and operative to pass a first voice channel;

a subscriber line interface coupled to said selective means and operative to convert said first voice channel to a first analog telephone signal; and

a first telephone connector coupled to said subscriber line interface and couplable to a telephone device to couple the telephone device to said first analog telephone signal.

22.(currently amended) The module according to claim 21,
wherein ~~at least part of the~~ wiring is existing wiring in athe
building and the wiring comprises at least two conductors in
walls of the building and a plurality of outlets allowing for
connection to the two conductors by means of a service jack,
and wherein the module further comprises a service plug
connectable to a mating service jack, and said modem is
coupled to said service plug.

23.(previously presented) The module according to claim 22,
wherein the wiring is used to concurrently carrying a service
signal.

24.(previously presented) The module according to claim 23,
wherein the wiring is a telephone wiring.

25.(currently amended) The module according to claim 22,
wherein the module is dimensioned to be mountable in an outlet
cavity inattachable to a wall.

26.(currently amended) The module according to claim ~~25~~22,
wherein the module is at least in part housed within an
outlet.

27.(previously presented) The module according to claim 21
wherein the wiring concurrently carries a frequency domain

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multiplexed second analog telephone signal in a telephone band, and the module further comprises:

a frequency selective means couplable to the wiring and operative to pass the said second analog telephone signal; and

a second telephone connector coupled to said frequency selective means for coupling a telephone device to said second analog telephone signal.

28.(previously presented) The module according to claim 21, wherein the multiplexed digitized voice channels carry Pulse Code Modulation (PCM) signals.

29.(previously presented) The module according to claim 21, wherein the wiring further carry data signals, and the module further comprises a data connector operative to couple the data signals to a data unit.

30.(currently amended) A module for coupling at least one telephone service signal to at least one time-domain multiplexed digitized voice channel carried over a wiring having at least two conductors, the module comprising:

at least one exchange line interface couplable to said at least one telephone service signal, and operative to

convert said at least one telephone service signal to a digitized service ~~signal~~, signal; and

a modem coupled to said at least one exchange line interface and operative to couple said digitized service signal to the signal carried over the wiring.

31.(previously presented) The module according to claim 30, wherein the module is used for coupling multiple service signals to multiple time-domain multiplexed digitized voice channels carried over the wiring, and wherein the module further comprising selective means coupled to said modem and to said at least one exchange line interface and operative to selectively couple said multiple digitized voice channels carried over the wiring to said digitized service channels.

32.(currently amended) The module according to claim 30, wherein ~~at least part of the wiring is existing wiring in a~~the building, and said modem is operative to communicate with identical modems in the building over the existing wiring.

33.(previously presented) The module according to claim 32, wherein the wiring is used to concurrently carrying a service signal.

34.(previously presented) The module according to claim 33,
wherein the wiring is a telephone wiring.

35.(currently amended) The module according to claim 32,
wherein the module is dimensioned to be mountable in an outlet
cavity inattachable~~to~~ a wall.

36.(currently amended) The module according to claim ~~35~~32,
wherein the module is at least in part housed within an
outlet.

37.(previously presented) The module according to claim 30,
wherein the wiring concurrently carries a frequency domain
multiplexed analog telephone signal in a telephone band, and
the module further comprises:

 a connection means for coupling to an analog telephone
service; and

 a frequency selective means coupled to said connection
means and couplable to the wiring, and operative to pass the
analog telephone signal.

38.(previously presented) The module according to claim 30,
wherein the multiplexed digitized voice channels carry Pulse
Code Modulation (PCM) signals.

39.(previously presented) The module according to claim 30, wherein the wiring further carry data signals, and the module further comprises a data connector operative to couple the data signals to a data unit.

40-58.(canceled)

59.(currently amended) For use with first and second wiring segments, each segment having at least two conductors and each segment carrying a signal composed of a plurality of time-domain multiplexed digitized voice channels, at least the first wiring segment being local area network wiring in a building, a module for coupling a telephone device to said wiring segments, the module comprising:

first and second modems each couplable to a respective one of said first and second wiring segments, said first modem being operative to communicate with at least one identical modem in the building over the first wiring segment and said second modem being couplable to the second wiring segment and ~~each operative to couple to a respective one of the signals~~ the signal carried over the first and second wiring segment;

selective means coupled to said first and second modems and operative to select one voice channel;

a subscriber line interface coupled to said selective means and operative to convert said one voice channel to a first analog telephone ~~interface~~signal; and

a first telephone connector coupled to said subscriber line interface and operative to couple the telephone device to said first analog telephone ~~interface~~signal.

60-61. (canceled)

62. (currently amended) The module according to claim 59, wherein ~~at least one of said~~said the second wiring ~~segments~~segment is a telephone wiring.

63. (currently amended) The module according to claim ~~60~~59, wherein the module is dimensioned to be mountable in an outlet cavity in~~attachable to~~ a wall.

64. (currently amended) The module according to claim ~~63~~59, wherein the module is at least in part housed within an outlet.

65. (previously presented) The module according to claim 59, wherein at least one of said wiring segments concurrently

carries a frequency domain multiplexed second analog telephone signal in a telephone band, and the module further comprises:

a frequency selective means couplable to the wiring and operative to isolate said second analog telephone signal; and

a second telephone connector coupled to said frequency selective means and operative to couple a telephone device to said second analog telephone signal.

66. (previously presented) The module according to claim 59, wherein the multiplexed digitized voice channels carry Pulse Code Modulation (PCM) signals.

67. (previously presented) The module according to claim 59, wherein at least one of said wiring segments further carries data signals, and the module further comprises a data connector operative to couple a data unit to the data signals.

68-84. (canceled)

85. (new) A kit for use with a wiring system in a building having a continuous wire pair and multiple outlets for connecting to said wire pair and forming a bus topology, the wire pair carrying at least one time-domain multiplexed digitized voice channel, said kit comprising:

at least two modules, each as defined in claim 21, all of said modules having identical modems, and each of said modems being operative to communicate with all other modems of the other modules.

86. (new) The modem according to claim 21, wherein the communication over the wire pair uses a frequency band distinct and above the xDSL frequency band.

87. (new) The module according to claim 30, wherein said modem is operative to communicate with at least one identical modem over the wiring.

88. (new) The module according to claim 21, further comprising means for detachably electrically and mechanically coupling said module to an outlet connected to the wiring.

89. (new) The module according to claim 59, wherein said selective means are operative to pass at least one voice channel between said first and second modems.